

Dorzolamide

Catalog No: tcsc1859



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

120279-96-1

Formula:

$C_{10}H_{16}N_2O_4S_3$

Pathway:

Metabolic Enzyme/Protease

Target:

Carbonic Anhydrase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

L671152;MK507

Observed Molecular Weight:

324.44

Product Description

Dorzolamide(L671152; MK507) is an anti-glaucoma agent, which is a carbonic anhydrase inhibitor.

Target: carbonic anhydrase (CA)

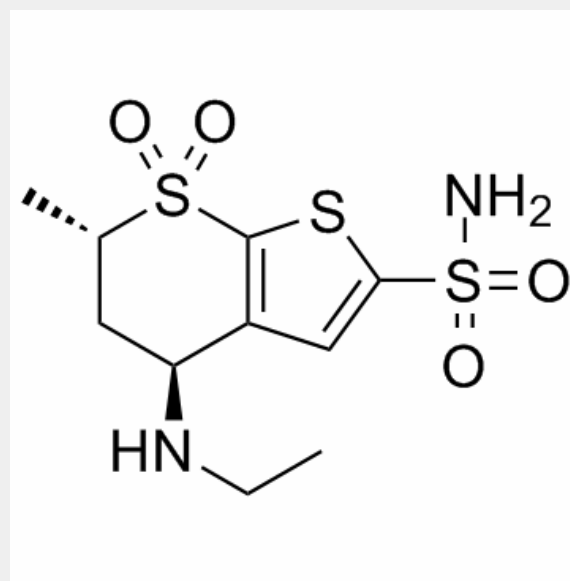
Dorzolamide is a carbonic anhydrase inhibitor. It is an anti-glaucoma agent, and acts by decreasing the production of aqueous humour [1].

Glaucoma was induced in the right eye of adult Wistar rats by episcleral venous occlusion. One experimental group was administered dorzolamide 2%-timolol 0.5% combination eye drops, while the other experimental group was administered dorzolamide 2% eye drops. Control groups had surgery without drug administration. Drug application was initiated either 2 weeks before surgery (Group A), from the day of surgery (Group B), 2 weeks after surgery (Group C), or 4 weeks after surgery (Group D). RGCs were labeled by intratectal Fluorogold injections and counted from flat-mount preparations, and IOP was measured using Tonopen. Both dorzolamide-timolol combination and dorzolamide, when applied topically, significantly reduced IOP and improved RGC densities in experimental eyes when compared to control eyes. Earlier initiation, as well as longer duration of drug application, resulted in higher RGC densities [2].

Clinical indications: Glaucoma; Ocular hypertension

FDA Approved Date: 1995

Toxicity: Dizziness, headache, shortness of breath, slow heartbeat, severe asthma, cardiac arrest



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!